

Glutaric acid, dodec-2-en-1-yl 2,2-dichloroethyl ester

Inchi:	InChI=1S/C19H32Cl2O4/c1-2-3-4-5-6-7-8-9-10-11-15-24-18(22)13-12-14-19(23)25-16-17
InchiKey:	AZXFGHAHNXSDGF-ZHACJKMWSA-N
Formula:	C19H32Cl2O4
SMILES:	CCCCCCCCC=CCOC(=O)CCCC(=O)OCC(Cl)Cl
Mol. weight [g/mol]:	395.36

Physical Properties

Property code	Value	Unit	Source
gf	-304.82	kJ/mol	Joback Method
hf	-844.63	kJ/mol	Joback Method
hfus	55.61	kJ/mol	Joback Method
hvap	84.54	kJ/mol	Joback Method
log10ws	-6.27		Crippen Method
logp	5.744		Crippen Method
mvol	313.630	ml/mol	McGowan Method
pc	1138.27	kPa	Joback Method
rinpol	2588.00		NIST Webbook
rinpol	2588.00		NIST Webbook
tb	865.28	K	Joback Method
tc	1062.58	K	Joback Method
tf	487.97	K	Joback Method
vc	1.220	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	943.77	J/molxK	865.28	Joback Method
cpg	959.30	J/molxK	898.16	Joback Method
cpg	973.81	J/molxK	931.05	Joback Method
cpg	987.34	J/molxK	963.93	Joback Method
cpg	999.92	J/molxK	996.82	Joback Method
cpg	1011.59	J/molxK	1029.70	Joback Method
cpg	1022.38	J/molxK	1062.58	Joback Method
dvisc	0.0006222	Paxs	487.97	Joback Method

dvisc	0.0002948	Paxs	550.86	Joback Method
dvisc	0.0001628	Paxs	613.74	Joback Method
dvisc	0.0001004	Paxs	676.62	Joback Method
dvisc	0.0000672	Paxs	739.51	Joback Method
dvisc	0.0000479	Paxs	802.39	Joback Method
dvisc	0.0000359	Paxs	865.28	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U393542&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m_{cvol}:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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